CLAIMS

 A medical grade deformer, comprising: an axial member; and

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- a pliable tube mounted on said axial member and adapted to be deformed from a first, narrower diameter, configuration to a second, greater diameter, configuration.
 - 2. A deformer according to claim 1, wherein said tube is slotted through its thickness.
- 10 3. A deformer according to claim 1, wherein said tube is not slotted.
 - 4. A deformer according to claim 1, comprising at least one end engaging one end of said tube and adapted to apply compressive force to said tube for achieving said deformation.
- 15 5. A deformer according to claim 4, comprising at least a second end one end engaging a second end of said tube and adapted to cooperate with said first end to compress said tube.
 - 6. A deformer according to claim 5, wherein said two engaging ends and said axial member lock to maintain said pliable tube in a greater diameter configuration.
 - 7. A deformer according to claim 1, wherein said tube changes configuration by axial compression thereof.
 - 8. A deformer according to claim 1, wherein said axial member is rigid.
 - 9. A deformer according to claim 1, wherein said axial member is flexible.
 - 10. A deformer according to claim 1, wherein said axial member extends out of said tube and is attached to a handle.
 - 11. A deformer according to claim 1, wherein said axial member comprises a release mechanism for release of said deformer from a delivery system.

12. A deformer according to claim 11, wherein said axial member comprises a locking mechanism for locking of said deformer in a greater diameter configuration in conjunction with release.

- 5 13. A deformer according to claim 1, wherein said deformer includes a channel adapted for bone filler flow.
 - 14. A deformer according to claim 13, wherein said channel is formed in said axial member.
 - 15. A deformer according to claim 13, wherein said channel is formed between said axial member and said tube.
- 16. A deformer according to claim 1, wherein said axial member extends from said tube
 15 and is adapted to function as a hinge of a joint.
 - 17. A deformer according to claim 1, wherein said deformer forms a bone attachment unit for a prosthesis.
- 20 18. A deformer according to claim 1, comprising an enclosing bag, which surrounds said tube in said second configuration.
 - 19. A deformer according to claim 18, wherein said bag is bio-degradable in the body.
- 25 20. A deformer according to claim 18, wherein said bag is porous.

- 21. A deformer according to claim 1, wherein said deformer defines a general volume in the shape of a cylinder when in said second configuration.
- 30 22. A deformer according to claim 1, wherein said deformer defines a general volume in the shape of a truncated pyramid when in said second configuration.

23. A deformer according to claim 1, wherein said deformer defines an axially rotationally asymmetric general volume when in said second configuration.

- 24. A deformer according to claim 1, wherein said deformer defines a predetermined general volume when in said second configuration.
 - 25. A deformer according to claim 1, wherein said deformer comprises a set of axially contiguous zones with different material properties.
- 10 26. A deformer according to claim 1, wherein said deformer has a non-smooth outer surface in said second configuration.
 - 27. A deformer according to claim 1, wherein said deformer is stiff enough, when in said second configuration to resist a trans-axial force of at least 50Kg.

28. A deformer according to claim 1, wherein said deformer, when in said second configuration has an axial applied force of at least 2Kg.

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- 29. A deformer according to claim 1, wherein said pliable material has a shore hardness of between 50A and 90D.
 - 30. A deformer according to claim 1, wherein said pliable material is non-metallic.
 - 31. A deformer according to claim 1, wherein said pliable material is polymeric.
 - 32. A deformer according to claim 1, wherein said deformer includes at least one axial thread.
- 33. A deformer according to claim 1, wherein said deformer includes at least one circumferential thread.
 - 34. A deformer according to claim 1, wherein said deformer, in said second configuration, defines a general volume and wherein said deformer fills at least 30% of said volume.

35. A deformer according to claim 1, wherein said deformer, in said second configuration, defines a general volume and wherein said deformer fills at least 50% of said volume.

- 5 36. A deformer according to claim 1, wherein said tube defines a plurality of slots, such that when deformed to the second configuration, a plurality of axially displaced leaves extend from said tube to define said second configuration.
- 37. A deformer according to claim 36, wherein said tube defines at least three axially displaced leaves.
 - 38. A deformer according to claim 36, wherein adjacent leaves support each other, in said second configurations.
- 15 39. A deformer according to claim 36, wherein an end leaf is shorter than a non-end leaf.
 - 40. A deformer according to claim 36, wherein an end leaf is supported, on one side thereof, by an end cap of said deformer.
- 20 41. A deformer according to claim 36, wherein adjacent leaves deform each other.
 - 42. A deformer according to claim 36, wherein at least 50% of the leaves are deformed from a plane.
- 43. A deformer, comprising a non-inflatable substantially non-absorbent deformable non-metallic body having two configurations, a first configuration in which said body has a narrower diameter and a second configuration in which said narrower diameter is greater, wherein said deformer is adapted to remain substantially undeformed under a force of over 10 Kg and wherein said deformer is sized for positioning inside a human vertebra.

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44. A deformer according to claim 43, wherein said deformer is adapted to remain substantially undeformed when in a human lumbar vertebra in standing condition.

- 45. A deformer according to claim 43, wherein said deformer is self-expanding.
- 46. A deformer according to claim 43, as part of kit including a spinal access tool.
- 5 47. A method of spinal surgery, comprising:
 inserting a non-inflatable non-absorbent deformable deformer into a vertebra; and
 deforming said deformer such that cortical bone of vertebral faces of said vertebra,
 move relative to each other.
- 10 48. A method of treating a bone, comprising:
 inserting a unsealed pliable element into the bone; and
 mechanically deforming the pliable element such that said pliable element applies
 deforming force on the bone.
- 15 49. A method according to claim 48, wherein said pliable element comprises at least one open aperture of cross-section greater than 0.5x0.5 mm.
 - 50. A method according to claim 48, wherein said bone comprises a vertebral bone.
- 20 51. A method according to claim 48, wherein said bone comprises a long bone.
- 52. A method of achieving a desired bone displacement, comprising:
 determining a desired degree of displacement;
 determining a deformation amount, of a deformer, suitable to achieve said deformation;
 inserting a suitable deformer into a bone; and
 deforming said deformer, said deformation amount, to achieve said displacement to within 2 mm.
 - 53. A method of deforming a medical deformer, comprising:
 - (a) applying a compressing force;

- (b) retracting an overtube;
- (c) repeating (a) and (b) such that a plurality of sections of the deformer deform to a greater diameter; and

- (d) applying a final compressing force to stiffen the deformer.
- 54. A method according to claim 53, wherein said repeating is intermittent.
- 5 55. An inflatable bone moving element, comprising:
 - (a) a first balloon;
 - (b) a second enclosing balloon; and
- (c) a dual balloon inflator adapted to first inflate the inner balloon and then inflate the outer balloon, such that the inner balloon constrain the direction of expansion of the outer
 balloon.
 - 56. A deformer delivery system, comprising:
 - a distal end adapted to be inserted into a vertebra through a cannula;
 - a proximal body including a handle; and
- a spacer adapted to vary in length and maintain a distance between said body and said cannula, thereby maintaining a relative position of said distal end and said vertebra.
 - 57. A system according to claim 56, wherein said spacer is integral to said system.
- 20 58. A deformer delivery system, comprising:
 - (a) an over tube;
 - (b) an over tube retractor;
 - (c) a pushing element adapted to deform a deformer; and
- (d) a synchronizing mechanism adapted to retract said overtube in synchrony with advancing said pushing element, wherein said retractor delays until after said pushing element starts deforming said deformer a given amount.
 - 59. A deformer delivery system, comprising:
 - (a) an over tube;
- 30 (b) an over tube retractor;
 - (c) a pushing element adapted to deform a deformer; and

(d) a synchronizing mechanism adapted to retract said overtube in synchrony with advancing said pushing element, wherein said retractor is adapted to retracts said overtube also when said pushing element is retracted.

- 5 60. A deformer delivery system, comprising:
 - (a) an over tube;
 - (b) an over tube retractor;
 - (c) a pushing element adapted to deform a deformer; and
- (d) a synchronizing mechanism adapted to retract said overtube in synchrony with
 10 advancing said pushing element, wherein said delivery system has an axial extent shorter than
 130% of an extent of motion of said pushing element.
 - 61. A deformer delivery system according to claim 60, wherein said axial extent is less than 100% of said extent of motion.